

## ABSTRACT

An optical transmission system including a pulse train  
5 generating means converting each data signal to a pulse train,  
respectively, based on at least one encoding pattern that is  
uniquely predetermined to correspond to the data signals, and  
outputting the pulse train(s). Further, the system including an  
optical modulating means converting the pulse train(s) output from  
10 the pulse train generating means to an optically modulated signal  
and outputting the signal, and including an optical transmission  
path for transmitting the optically modulated signal that is output  
from the optical modulating means. The system also including an  
optical detecting means converting the optically modulated signal  
15 transmitted on the optical transmission path to an electrical  
signal and outputting the signal, and including data signal  
extracting means for obtaining the pulse train from the electrical  
signal and extracting the data signal(s).